

View from Methoni Meteorogical Station

VLV?T Workshop - 5-8 October 2003 - NIKHEF, Amsterdam



NESTOR position

Deployment considerations

- Sea state working conditions up to 4 baufort
- Modular system with built in redundancy
- "All" connections to be made in air
- Use ships of opportunity and non highly specialized surface vessels for deployment
- Use locally available transport vessels
- No use of bathyscaphs or ROVs
- Retrievable and expandable
- Dynamic acoustic positioning

NESTOR tower









Under Construction: to be commissioned at Pylos next spring



Central well-ballasted platform
Dynamic position, keeping station ±5m
Operational up to wind/sea state force 4 beaufort
Heave compensating winches
Each side 51m long

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Star on the surface and just below, during deployment





Data from a depth of 4000 m





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Data from a depth of 4000 m Compass and tiltmeters during deployment



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Light sensor's desired relative positions



NESTOR



Light sensor's desired relative positions with strings





Light sensor's desired relative positions with stars (towers)

15% of a Km² NESTOR Detector

7 towers (1176 PMT's)

•1.8 Megatons of DENSILY instrumented mass within the 7 towers (i.e. few GeV threshold)

• 25 Megatons of enclosed mass

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200

Simulation of deployment or recovery of a NESTOR tower by Makai, Hawaii

Prepared for the recovery and deployment of NESTOR payload during 2001 campaign

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Simulation of recovery by Makai, Hawaii

Simulation of deployment by Makai, Hawaii

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end

NESTOR Imstitute

